AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A method of implementing an admission control algorithm in a telecommunications system, the method comprising:

dynamically adapting at least one parameter of said algorithm as a function of a traffic model representative of ~~the~~ traffic present,

wherein said traffic model includes one or more parameters representative of at least one type of traffic present.

2. (cancelled)

3. (currently amended) [[A]] The method according to claim [[2]] 1, wherein the parameters representative of [[a]] the at least one type of traffic include parameters representative of quality of service (QoS) requirements for ~~that~~ the at least one type of traffic ~~type~~.

4. (currently amended) A method of implementing an admission control algorithm in a telecommunications system, the method comprising:

dynamically adapting at least one parameter of said algorithm as a function of a traffic model representative of ~~the~~ traffic present,

wherein parameters representative of a type of traffic include parameters representative of quality of service (QoS) requirements for ~~that~~ the type of traffic ~~type~~, and

wherein parameters representative of quality of service requirements include a maximum transmission time-delay and a probability that the transmission time-delay will be greater than that maximum transmission time-delay.

5. (currently amended) [[A]] The method according to claim [[2]] 1, wherein parameters representative of the type of traffic include parameters representative of transmission resource requirements for said type of traffic ~~type~~ and for a given quality of service (QoS).

6. (currently amended) [[A]] The method according to claim 5, wherein parameters representative of transmission resource requirements for a given quality of service (QoS) include a connection activity factor.

7. (currently amended) [[A]] The method according to claim 1, wherein, if different traffic types are present, said traffic model includes relative proportions for said different traffic types.

8. (currently amended) [[A]] The method according to claim 1, wherein said at least one parameter corresponds to a margin corresponding to a maximum acceptable load.

9. (currently amended) [[A]] The method according to claim 1, wherein said at least one parameter corresponds to an equivalent bandwidth.

10. (currently amended) [[A]] The method according to claim 1, wherein the value of said at least one parameter is chosen from different reference values optimized for different reference traffic models.

11. (currently amended) [[A]] The method according to claim 10, wherein, for a traffic model that does not correspond to a reference traffic model, a reference traffic model is determined that constitutes the best approximation thereof.

12. (currently amended) [[A]] The method according to claim 10, wherein, for a traffic model that does not correspond to a reference traffic model, a reference traffic model is determined that constitutes the best approximation thereof and has the severest constraints.

13. (currently amended) [[A]] The method according to claim 1~~, including a first step during which~~ further comprising determining reference traffic models ~~are determined~~ and determining corresponding reference values for said at least one parameter~~ are determined~~.

14. (currently amended) [[A]] The method according to claim 13, wherein said reference values are determined by simulation or measurement.

15. (currently amended) [[A]] The method according to claim 13, wherein said reference values are determined by calculation.

16. (currently amended) [[A]] The method according to claim 13, including a second step during which reference traffic models and corresponding reference values are stored in a memory.

17. (Currently Amended) [[A]] The method according to claim 16, ~~including a third step during which~~ further comprising estimating a traffic model representative of the traffic present ~~is estimated~~.

18. (currently amended) [[A]] The method according to claim 17, wherein said estimation includes an estimation of the traffic types present and, if different traffic types are present, relative proportions for said different traffic types.

19. (currently amended) [[A]] The method according to claim 18, wherein said estimation includes estimating the traffic types present based on traffic information contained in signaling messages received by a network element from at least one other network element.

20. (currently amended) [[A]] The method according to claim 18, wherein said estimation includes estimating relative proportions for different traffic types obtained by measuring or counting traffic.

21. (currently amended) [[A]] The method according to claim 17, wherein a traffic model representative of the traffic present is re-estimated each time a new connection is set-up and each time a connection is cleared down.

22. (currently amended) [[A]] The method according to claim 17, wherein a traffic model representative of the traffic present is re-estimated at the end of a pre-determined time period.

23. (currently amended) [[A]] The method according to claim 17, ~~including a fourth step during which~~ further comprising choosing a ~~the~~ reference traffic model from the determined reference traffic models ~~is chosen~~ that best approximates the estimated traffic model ~~estimated during the third step~~.

24. (currently amended) [[A]] The method according to claim 23, wherein during ~~the fourth step,~~ choosing the reference traffic model, the reference traffic model is chosen that best approximates the traffic model ~~estimated during the third step according to~~ based on the severest constraints.

25. (currently amended) [[A]] The method according to claim 23, ~~including a fifth step during which~~ further comprising dynamically modifying said at least one parameter of said algorithm is ~~dynamically modified~~ as a function of parameters corresponding to the chosen reference traffic model ~~chosen during the fourth step~~.

26. (currently amended) [[A]] The method according to claim 25, wherein a modification is effected only in the event of a significant change in said at least one parameter.

27. (currently amended) [[A]] The method according to claim 25, ~~including a sixth step during which~~ further comprising executing said algorithm ~~is executed~~ with said modified at least one parameter ~~modified during the fifth step~~.

28. (currently amended) [[A]] The method according to claim 1, used for AAL2 connection admission control on an ATM virtual circuit.

29. (currently amended) [[A]] The method according to claim 28, used for AAL2 connection admission control on an ATM virtual circuit at a Iub interface in a UTRAN.

30. (currently amended) [[A]] The method according to claim 28, used for AAL2 connection admission control on an ATM virtual circuit at a Iu-CS interface in a UTRAN.

31. (currently amended) [[A]] The method according to claim 28, used for AAL2 connection admission control on an ATM virtual circuit at a Iur interface in a UTRAN.

32. (currently amended) [[A]] The method according to claim 1, used for admission control in a packet-switched mode network.

33. (currently amended) [[A]] The method according to claim 1, used for admission control at the radio interface of a CDMA system.

34. (currently amended) [[A]] The radio access network element for use in a mobile radio system and including means for implementing a method according to claim 1.

35. (currently amended) [[A]] The base station controller (RNC) for use in a mobile radio system and including means for implementing a method according to claim 1.

36. (currently amended) [[A]] The base station (Node B) for use in a mobile radio system and including means for implementing a method according to claim 1.

37. (currently amended) [[A]] The core network element for use in a mobile radio system and including means for implementing a method according to claim 1.

38. (new): The method of implementing an admission control algorithm in a telecommunications system according to claim 1, further comprising adapting the at least one parameter of said algorithm as a function of a plurality of traffic model representative of the traffic present, wherein each of the traffic models of the plurality of traffic models is based on different traffic behavior.